

## ThreadPrinter.java

```
1
2 public class ThreadPrinter {
3     // true打印数字, false打印字母
4     private boolean flag = true;
5
6     public synchronized void printNumber(String s) {
7         try {
8             if (!flag) {
9                 super.wait();
10            }
11            System.out.print(s);
12            flag = false;
13            super.notifyAll();
14        } catch (InterruptedException ex) {
15        }
16    }
17
18    public synchronized void printLetter(String s) {
19        try {
20            if (flag) {
21                super.wait();
22            }
23        }
24    }
25 }
```

## ThreadPrinter.java

```
23         System.out.print(s);
24         flag = true;
25         super.notifyAll();
26     } catch (InterruptedException ex) {
27     }
28 }
29
30 public static class LetterPrintThread extends Thread {
31     public ThreadPrinter printer;
32
33     public LetterPrintThread(String name, ThreadPrinter printer) {
34         super(name);
35         this.printer = printer;
36     }
37
38     public void run() {
39         for (int i = 1; i <= 26; i++) {
40             int temp = i + 64;
41             char c = (char) temp;
42             printer.printLetter(c + " ");
43         }
44     }
```

## ThreadPrinter.java

```
45
46     }
47
48     public static class NumberPrintThread extends Thread {
49         public ThreadPrinter printer;
50
51         public NumberPrintThread(String name, ThreadPrinter printer) {
52             super(name);
53             this.printer = printer;
54         }
55
56         public void run() {
57             for (int i = 1; i <= 26; i++) {
58                 String s = (2 * i - 1) + " " + 2 * i + " ";
59                 printer.printNumber(s);
60             }
61         }
62     }
63 }
64
65 public static void main(String[] args) {
66     ThreadPrinter printer = new ThreadPrinter();
```

## ThreadPrinter.java

```
67      new NumberPrintThread("打印数字线程", printer).start();
68      new LetterPrintThread("打印字母线程", printer).start();
69  }
70 }
71
```